

WHAT IS CLAIMED IS:

1. A communication device comprising:
    - an antenna module which receives information transmitted through wireless communication and includes  
5 a receiver sensitivity measuring function;
    - a determining unit which determines effectiveness of the received information in accordance with the receiver sensitivity measured by the antenna module;
    - 10 a category determining unit which determines a category of the received information;
    - a storage unit which stores the received information as effective information in accordance with determining results of the determining unit and the category determining unit; and
  - 15 an information deletion unit which deletes information of the same category received prior to the latest received information from the storage unit.
2. The communication device according to claim 1, wherein:
- 20 if a plurality of sending devices of the information are provided, the determining unit determines information transmitted from a sending device located at a relatively short distance to be effective by calculating distances from the sending devices of the information in accordance with the  
25 receiver sensitivity.
3. The communication device according to claim 1,

further comprising;

a category information storage unit which stores category information indicating the category of the effective information, wherein

5           the category determining unit determines the relevant received information to be effective when the category of the information received with the antenna module matches the category indicated by the category information.

10          4. The communication device according to claim 1, wherein

the information deletion unit deletes previous information of the same category as the information from the storage unit before the effective information  
15         is stored in the storage unit.

5. The communication device according to claim 1,  
wherein

the information deletion unit deletes previous information of the same category as the information  
20         from the storage unit after effective and receivable information is stored in the storage unit.

6. The communication device according to claim 1,  
wherein

if a plurality of sending devices of the  
25         information are provided, the determining unit determines information transmitted from a sending device located at a relatively short distance to be

effective by calculating distances from the sending devices of the information in accordance with the receiver sensitivity, and

5           the information deletion unit deletes previous information of the same category as the information from the storage unit before the effective information is stored in the storage unit.

7. The communication device according to claim 1, wherein

10          the determining unit determines the information only of a particular category delivered from a wireless communication base station located at a relatively short distance to be effective,

15          the storage unit stores the information of the particular category determined to be effective by the determining unit, and

20          the information deletion unit deletes, from the storage, unit the information of the particular category that is received from the wireless communication stations other than the wireless communication station located at the relatively short distance.

8. A method of managing information applicable to a communication device having an antenna module which receives information transmitted through wireless communication and includes a receiver sensitivity measuring function, and a storage unit to store the

information,

the method comprising:

determining effectiveness of the information in accordance with the receiver sensitivity measured with  
5 the antenna module;

determining a category of the received information; and

deleting information of the same category received prior to the latest received information from the  
10 storage unit.

9. A method according to claim 8, further comprising:

receiving information of a particular category delivered from a plurality of wireless communication stations placed on plurality of places with the antenna module;  
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determining the information only of the particular category delivered from a wireless communication station located at a relatively short distance to be effective in accordance with the receiver sensitivity measured with the antenna module, if the plurality of wireless communication base stations are provided;  
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storing the information of the particular category determined to be effective by the effectiveness determining in the storage unit; and  
25

deleting previous information of the same category as the relevant information from the storage unit

before the effective information is stored in the storage unit.

10. A method according to claim 9, wherein  
the deleting is to delete, from the storage unit,  
5 the information of the particular category received  
from the wireless communication base stations other  
than the wireless communication base station located at  
the relatively short distance in accordance with a  
determining result of the effectiveness determining.

10 11. A method according to claim 9, wherein  
the deleting is to retrieve and delete all the  
information of the particular category from the storage  
unit when the information of the particular category  
determined to be receivable and effective is stored in  
15 the storage unit.

12. A method according to claim 8, further  
comprising:

20 receiving, with the antenna module, identification  
code information delivered from a plurality of wireless  
communication devices placed with respect to each  
predetermined area;

storing information corresponding to the  
identification code information received with the  
antenna module in an internal storage unit;

25 selecting, from the internal storage unit, the  
information corresponding to the identification code  
information received from a wireless communication

device located at a relatively short distance among the respective wireless communication devices;

5 determining suitability of reception of the identification code information from the respective wireless communication devices; and

10 deleting all the information regarding the identification code information stored in the internal storage unit when the reception of the identification code information from the respective wireless communication devices is not possible.

13. A method according to claim 12, wherein the identification code information is information to identify a position of the area on which the respective wireless communication devices are placed.